

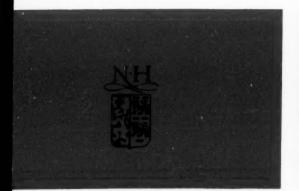
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MASTER INDEX VOLUMES 211–220 AUGUST 1993–APRIL 1994



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Printed in The Netherlands

Published weekly

Library of Congress Catalog Card Number 68-26532

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MASTER INDEX VOLUMES 211–220 AUGUST 1993–APRIL 1994



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- Professor D.A. Wiersma, Department of Chemistry, Ultrafast Laser and Spectroscopy Laboratory, University of Groningen, Nijenborgh 4, 9747 AG Groningen, The Netherlands. FAX 31-50-634441
- Professor C. Wittig, Department of Chemistry, University of Southern California, Los Angeles, CA 90089, USA. FAX 1-213-7402701
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- Professor K. Yoshihara, Institute for Molecular Science, Okazaki 444, Japan. FAX 81-564-542254
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- Professor C.-H. Zhang, National Natural Science Foundation of China, 35 Huayuan Beilu, East Gate, Haidian District, Beijing 100083, People's Republic of China. FAX 86-1-2010306



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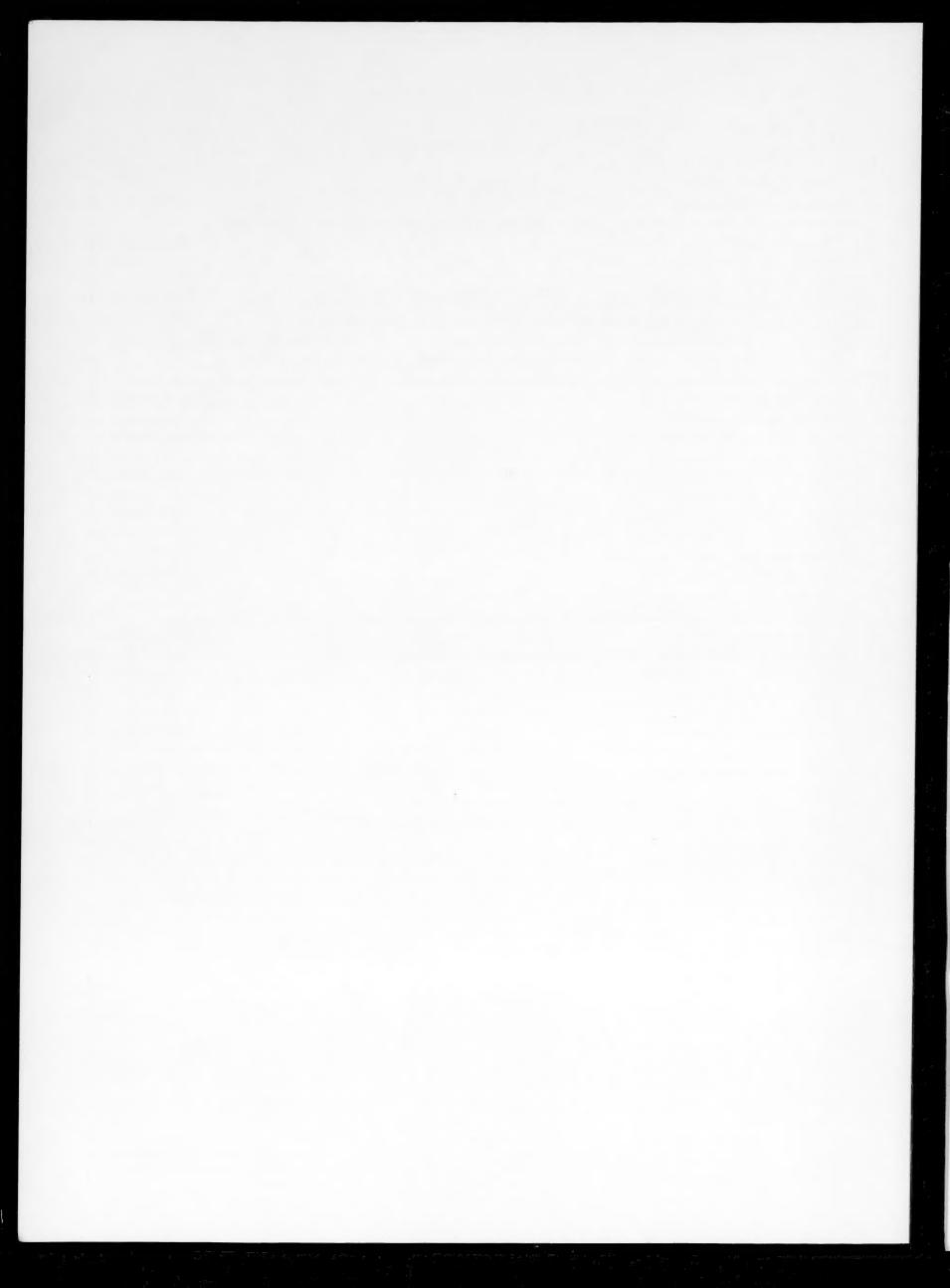
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## Mössbauer Studies of Surface Layers

By G.N. Belozerski

Studies in Physical and Theoretical Chemistry Volume 81

Mössbauer spectroscopy has evolved as one of the few methods available for investigation of solids differing in depth by several orders of magnitude. This recent development has made the problems of surface investigation and the study of separate lavers amenable to investigation. The parameters of the hyperfine interaction derived from the Mössbauer spectra provide valuable information on the chemical bond character and on magnetic properties of surface layers as well as on the change of the properties with the depth from the outermost surface layer. It is possible to carry out quantitative phase analysis and to use the technique to study different transformations in the solid which result from external effects under a wide range of temperatures and pressures.

This book is one of the first attempts at a consistent presentation of theoretical and practical problems of the use of Mössbauer spectroscopy to study solid surfaces, its applications, and development. The applications include: surface studies with hyperfine probes in the following fields: oxidation and corrosion of metals and alloys: passivating and protective coatings: physics of metals: annealing and quenching, mechanical and chemical treatment, ion implantation and laser treatment; texture of near-surface layers. Mössbauer spectroscopy is one of the best methods for in situ characterization of solid/solid and solid/solution interfaces. It lends itself to in situ studies of surfaces under various coatings and processes, surface magnetism and the effect of the gas phase on the properties of the surface layers and the structure and magnetic properties of epitaxially grown monolayers on the surface of oriented single crystals.

Contents: Preface. 1. Physical Concepts of the Method. General Aspects of Mössbauer Spectroscopy. Hyperfine Interactions and Line Positions in Mössbauer Spectra. Relative Intensities of Spectral Lines. Experimental. References. 2. Mössbauer Spectroscopy Based on Detection of Electromagnetic Radiation. Radiation Transmission through Matter, Low-Energy γ-Quanta Scattering. Resonance Fluorescence and Interference Effects. Angular Dependencies of the Scattered y-Radiation. Mössbauer y-Quanta Scattering as a Method of Surface Study. Scattering Experiments with Detection of Characteristic X-rays. A Theory of Backscattering Mössbauer Spectroscopy (X-Rays Detection). Backscattering Mössbauer Spectroscopy by the Detection of X- and y-Radiation. Practical Aspects. References. 3. Mössbauer Spectroscopy Based on the Detection of Electrons. The Interaction of Electrons with Matter Following Mössbauer Scattering. Conversion Electron Mössbauer Spectroscopy Theory Based on the Exponential Attenuation of the Electron Beam. Theory of CEMS Based on Elementary Electron Interactions. Depth Selective Conversion Electron Mössbauer Spectroscopy. β-Spectra and Weight Functions for DCEMS. Structure Determination of Near Surface



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## **Inorganic Polymeric Glasses**

By R.C. Ropp, Warren, NJ, USA

Studies in Inorganic Chemistry Volume 15

The author describes a novel method of preparing hydrolysis-stable non-silicate glasses which is based on experimental work accomplished over the past twenty years. As such, the method is the beginning of a new approach to glass-making by the use of a molecularly-polymerizable precursor.

The book elucidates the technical details required to produce such molecularly-polymerized glasses from carefully prepared inorganic molecular monomers. Essentially, only silicate-based glasses have been known to be stable, whereas non-silicate glasses could not be attributed with such properties. Such glasses have, therefore, not found widespread usage in industry. The new phosphate glasses described here exhibit stabilities superior to many of the silicate glasses.

Researchers in glass and glass properties will find this volume extremely useful and those involved in organic polymers will be intrigued by the similarities and disparities of the two systems.

Contents: 1. Introduction to Silicate Glass Technology.

Glass and Antiquity. The Glassy or Vitreous State. Glass Formers and Glass Compositions. The Manufacture of Silicate-Based Glasses. Forming and Finishing Operations. Thermal Processing and Properties of Silicate Glasses. Inherent Properties of Glass. Silicate Glass Products Currently being Manufactured.

2. Introduction to Polymeric Glasses.

Prior Attempts to Prepare Stable Phosphate Glasses. Structural Units in Glass. Basis for Chain Structure of Polymerized Phosphates. Prior Attempts to Prepare Phosphate Glasses by the Melting of Stoichiometric Compounds. Crystalline Salt Monomers for Stable Phosphate Glass Preparation.

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## Dynamics of Excited Molecules

Edited by Kozo Kuchitsu

Studies in Physical and Theoretical Chemistry Volume 82

The physical and chemical properties of the molecular species reviewed in this book, and sometimes the species themselves, had been postulated or predicted but their exact details remained essentially unexplored for decades. The recent advances in chemical physics (such as laser spectroscopy and quantumtheoretical calculations) have provided techniques for their unambiguous identification. Accurate data on their structures and dynamics are now available. Such information is indispensable for detailed discussion on the various properties of molecules and the mechanisms of intermolecular interactions and chemical interactions.

Information on the dynamics of excited molecules constitutes a firm basis of modern chemistry and physics. Moreover, it is of paramount importance in various fields of basic and applied sciences where chemical reactions play important roles: atomic and molecular physics, atmospheric and environmental science, space science, materials science, and biology.

This book contains 13 review articles on

(1) the techniques for production and identification of excited molecules in the gas phase, condensed phases, and intermediate phases (intermolecular complexes and atomic or molecular microclusters) (2) their structures and dynamics (internal reactions) observed

mainly by spectroscopic experiments
(3) their important roles in chemical processes. The target chemical species range from diatomics to relatively complicated aromatics in a variety of electronic and vibrational excited states, many of them being nonrigid or short-lived molecules, radicals, and positive or negative ions.

#### Contents:

- Dynamics of excited molecules.
   An introduction (K. Kuchitsu, S. Tsuchiya).
- Infrared diode laser and microwave kinetic spectroscopy (H. Kanamori et al.).
- Free jet infrared spectroscopy of weakly bound complexes (M. Takami et al.).
- Large-amplitude motions of aromatic molecules as studied by supersonic jet spectroscopy (M. Ito).
- Decay processes of inner-shell photoexcited molecules (Y. Sato)
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- 7. Vibrational dynamics in highly excited polyatomic molecules (K. Yamanouchi, S. Tsuchiya).



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- Dynamics of ion-molecule reactions (I. Koyano).
- Multiphoton ionization spectroscopy (H. Sato).
- Excited-state electron donor-acceptor interaction of jet-cooled organic molecules (M. Itoh, O. Kajimoto).
- 11. Gas-phase cluster ions: stability, structure and solvation (K. Hiraoka, S. Yamabe).
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# Physico-Chemical Properties of Selected Anionic, Cationic and Nonionic Surfactants

by N.M. van Os, J.R. Haak and L.A.M. Rupert

The number of physico-chemical investigations of surfactants in solution, whether aqueous or nonaqueous, has dramatically increased in recent years. However, literature reports on surfactants in solutions are scattered over a plethora of scientific journals and books which differ widely in scope and readership. Such data are often difficult to retrieve because there have been no systematic compilations, with the exception of those for CMCs and for micelle aggregation numbers.

The present compilation meets that need by covering, as completely as possible, the physicochemical properties of selected series of homologous surfactants. These surfactants are in most cases isomerically pure, are well-known, and have been used in numerous academic and industrial studies. The properties include aggregation number, cloud point, CMC, <sup>13</sup>C-NMR, correlation length, counterion binding, density, enthalpy of micelle formation

counterion binding, density, enthalpy of micelle formation, entropy of micelle formation, Gibbs' free energy of micelle formation, head group area, <sup>1</sup>H-NMR, hydration number, Krafft temperature, melting point, micelle radius, microscopic viscosity, miscibility curve, partial molar volume,

phase inversion temperature, refractive index, self- diffusion coefficient, surface tension, and upper critical temperature. The book also contains two- and threecomponent phase diagrams of many nonionic surfactants.

The solvent is water in most cases; however, some data refer to properties in D<sub>2</sub>O, electrolyte solutions, and nonaqueous solvents. The variables are temperature and concentration. Where possible, the method of measurement is given. Data on the purity of the compounds and the accuracy of the measurement methods are not included, as these can easily be found in the original sources, which mostly date from the period 1970-1991 and are given at the end of each chapter. The Index section contains a compound index, a property index, a symbol index and a cross index which facilitate easy access to the data.



Contents: Foreword (R. Zana). Introduction.

Part I: Anionic Surfactants.

Alkylsulphates.

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